User's Manual

BV7300

In-Dash AM/FM DVD/MP3/CD Receiver with 3.2-inch TFT Monitor

with USB and SD Memory Card Ports and Front Panel A/V AUX Input

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BOSS AUDIO SYSTEMS

BV7300

In-Dash DVD/MP3/CD AM/FM Receiver with 3.2" Widescreen TFT Monitor with USB and SD Memory Card Ports and Front Panel A/V AUX Input

Congratulations on your purchase of a BOSS AUDIO SYSTEMS DVD/MP3/CD Receiver.

It has been designed, engineered and manufactured to bring you the highest level of performance and quality, and will afford you years of listening pleasure.

Thank you for making BOSS AUDIO SYSTEMS your choice for mobile video entertainment!

WARNING!

Do not watch or operate the video monitor while driving. Doing so is unsafe and can distract the driver, which may cause an accident.

In some states or countries it is illegal for a driver to operate or view a video monitor while driving. It may also be illegal for a passenger to operate or view a video monitor in a moving vehicle even if the driver is not watching it.

Be sure that the installation and operation of this product is in compliance with local rules and regulations.

USER'S MANUAL

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When first unpacking your new receiver, please check first that the package contains all of the items below. If something is missing, contact the store where you purchased the player.

Package contents:
Head unit
Protective case (with front panel)
Mini jack to A/V RCA input cable
A/V RCA output cable
Wiring harness
Metal mounting strip
Mounting release keys
Screws, nuts, washers for installation
Remote control
User's manual
Warranty card

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Safety information

CAUTION:

This mobile DVD player is a Class 1 laser product. However, this mobile DVD player uses a visible/invisible laser beam which could cause hazardous radiation exposure if directed. Be sure to operate the mobile DVD player correctly as described in this manual.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Do not open covers and do not attempt to repair this product yourself. Refer servicing to qualified personnel.

WARNING:

- To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
- To reduce the risk of fire or electric shock, and annoying interference, use only the recommended accessories.
- This device is intended for continuous operation.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Region Management Information

This mobile DVD Player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this Mobile DVD Player, this Mobile DVD Player cannot play this disc.

DISC NOTES

You can playback the following discs:
DVD VIDEO/DVD AUDIO
VIDEO CD/AUDIO CD
MP3/WMA/JPEG/MPEG4

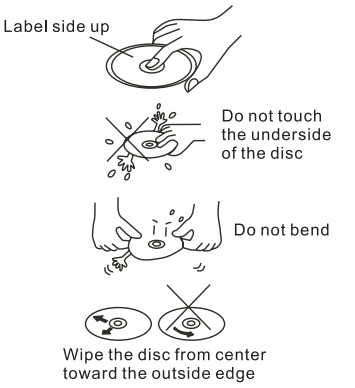
Handling and Cleaning

- Dirt, dust, scratches and warped discs will prevent proper operation.
- Do not place stickers or make scratches on discs.
- Do not bend discs.
- A disc should always be kept in its case when not in use to prevent damage.
- Do not place discs in the following places:

1.Direct sunlight.
2.Dirty, dusty and damp areas.
3.Near car heaters.
4.On the seats or dashboard.

Disc Cleaning

Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistened with isopropyl (rubbing) alcohol. Never use solvents such as benzene, thinner or conventional record cleaners as they may mar the surface of the disc.



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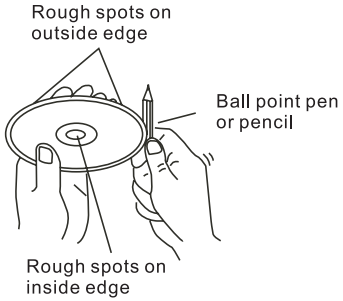
Preparing new discs with rough spots

A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the disc will not be properly seated and the player will not play the disc. Therefore, remove the rough edges in advance by using a ballpoint pen or pencil as shown on the right. Press the side of the pen or pencil against the inside and outside edges of the disc.



Installation

Notes:

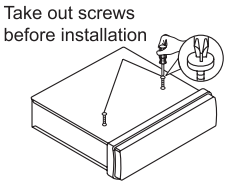
- Choose a mounting location where the unit will not distract the driver.
- Before the installation of the unit, connect the wiring temporarily and make sure it is all connected properly and the unit and the system works.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- If installation angle exceeds 30° from horizontal, the unit may not perform properly.
- Avoid installing the unit where it will be subject to high temperature, such as from direct sunlight, or from hot air, from the heater, or where it would be subject to dust, dirt or excessive vibration.

DIN mounting options

This unit can be installed either from the 'Front' (conventional DIN Front-mount) or the 'Rear' (DIN Rear-mount installation using the threaded holes on the sides of the chassis). For details, refer to the following illustrated installation methods.

Remove transit screws before installation

Before installing the unit, please remove the two transit screws.



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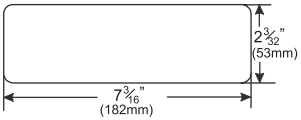
1. DIN front-mount (method A)

Installation opening

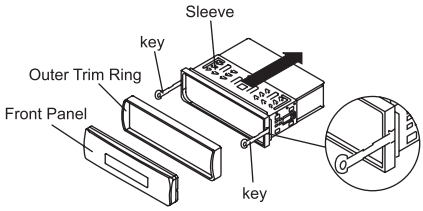
This unit can be installed in any dashboard opening with dimensions as shown below:



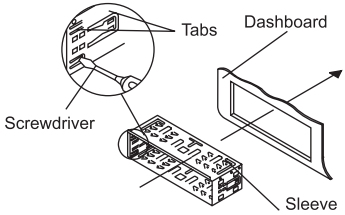
Installing the unit

Be sure to test all connections first, then follow these steps to install the unit.

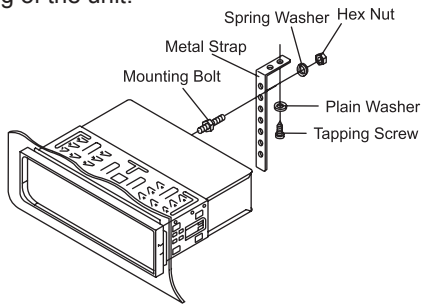
1. Make sure the ignition is turned off. Disconnect the cable from the vehicle battery negative (-) terminal.
2. Disconnect the wire harness and the antenna.
3. Press the **RELEASE** (⏏) on the front panel and remove the control panel (for details, refer to 'Using the Detachable Front Panel').
4. Lift the top of the outer trim ring. Then pull it out to remove it.
5. The two supplied keys release tabs inside the unit's sleeve so you can remove it. Insert the keys as far as they will go (with the notches facing up) into the appropriate slots at the center of the left and right sides of the unit. Then slide the sleeve off the back of the unit.



6. Mount the sleeve by inserting it into the opening of the dashboard and bend open the tabs located around the sleeve with a screwdriver. Not all tabs will be able to make contact, so examine the opening to determine which tabs will be most effective. Bend open the appropriate tabs behind the dashboard to secure the sleeve in place.



7. Reconnect the wire harness and the antenna, being careful not to pinch any wires or cables.
8. Slide the unit into the sleeve until it locks into place.
9. To further secure the unit, use the supplied metal strap to secure the back of the unit in place. Use the supplied hardware (Hex Nut (M5mm) and Spring Washer) to attach one end of the strap to the mounting bolt on the back of the unit. If necessary, bend the metal strap to fit your vehicle's mounting surface. Then use the supplied hardware (Tapping Screw (5x25mm) and Plain Washer) to attach the other end of the metal strap to a solid metal part of the vehicle under the dashboard. This strap also helps ensure proper electrical grounding of the unit.



10. Reconnect the cable to the vehicle battery's negative (-) terminal. Then replace the outer trim ring and install the unit's front panel (see the steps of 'to install the front panel').

Removing the unit

1. Make sure the ignition is turned off, and

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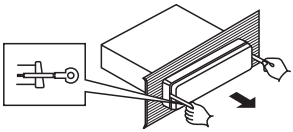
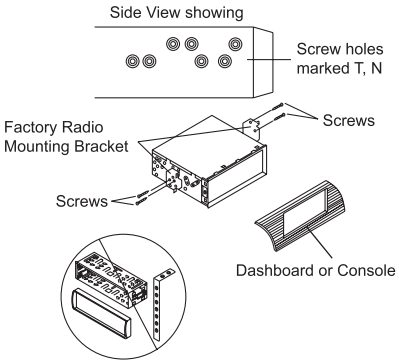
then disconnect the cable from the vehicle battery negative (-) terminal.
2. Remove the metal strap attached to the back of the unit (if present).
3. Press the release button to remove the front panel.
4. Lift the top of the outer trim ring then pull it out to remove it.
5. Insert both of the supplied keys into the slots at the middle left and right sides of the unit then pull the unit out of the dashboard.



2. DIN rear-mount (method B)

If your vehicle is a Nissan or Toyota, follow these mounting instructions: Use the screw holes marked T (Toyota) or N (Nissan) located on both sides of the unit to fasten the unit to the factory radio mounting brackets supplied with your car.



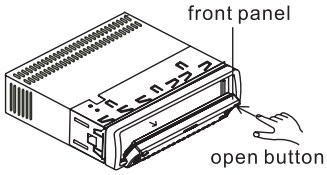
Fasten the unit to the factory radio mounting brackets. Align the screw holes on the bracket with the screw holes on the unit, and then tighten the screws (5x5mm) on each side.

Note: The outer trim ring, sleeve and the metal strap are not used for method B installation.

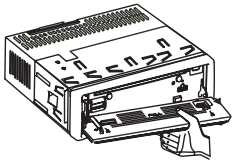
Using the detachable front panel

Removing the front panel

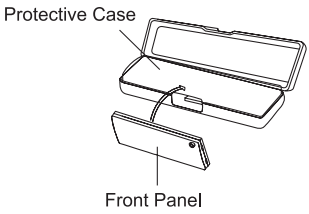
1. Press the **RELEASE** ⏏ button to flip down the front panel.



2. Pull off the front panel.

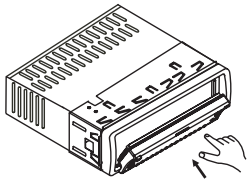


3. Store the front panel in its protective case.



Installing the front panel

To install the front panel, insert it as shown in the drawing below. Be sure it is fully inserted. If not, the display or some of the keys may not function properly.



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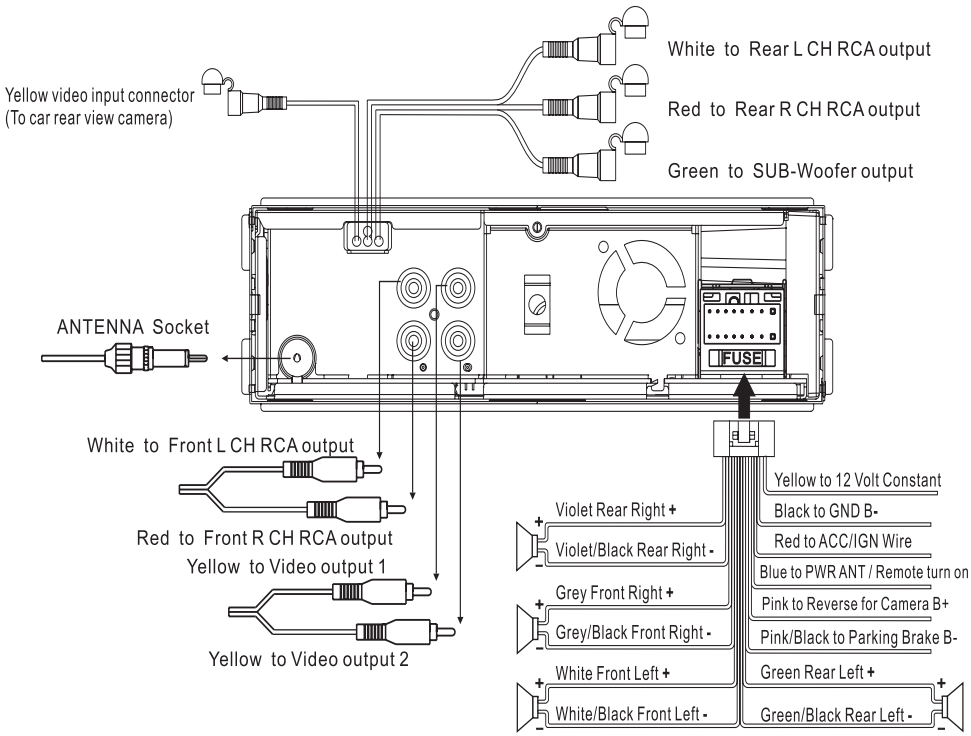
Wiring diagram

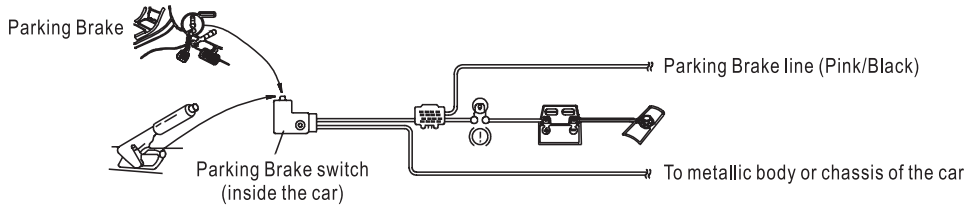

White to Rear L CH RCA output
Red to Rear R CH RCA output
Green to SUB-Woofer output
Yellow video input connector
(To car rear view camera)
ANTENNA Socket
FUSE
White to Front L CH RCA output
Red to Front R CH RCA output
Yellow to Video output 1
Yellow to Video output 2
Yellow to 12 Volt Constant
Black to GND B-
Red to ACC/IGN Wire
Blue to PWR ANT / Remote turn on
Pink to Reverse for Camera B+
Pink/Black to Parking Brake B-
Violet Rear Right +
Violet/Black Rear Right -
Grey Front Right +
Grey/Black Front Right -
White Front Left +
White/Black Front Left -
Green Rear Left +
Green/Black Rear Left -

WATCHING THE VIDEO MONITOR IS FORBIDDEN WHILE DRIVING:
The "PARKING BRAKE" wire must be connected to the parking brake system of your car. The LCD screen will display video images ONLY when the parking brake is engaged.

If the parking brake is not engaged, the screen will display the message "**DISABLED WHILE DRIVING**". This is a safety feature designed to prevent the driver from watching a video while driving. The video output of this unit is not affected by this.

Note: In Radio Mode or CD/MP3 Mode images will be displayed on the monitor whether or not the parking brake is engaged.

Connecting the Parking Brake line to the parking brake system built in the car



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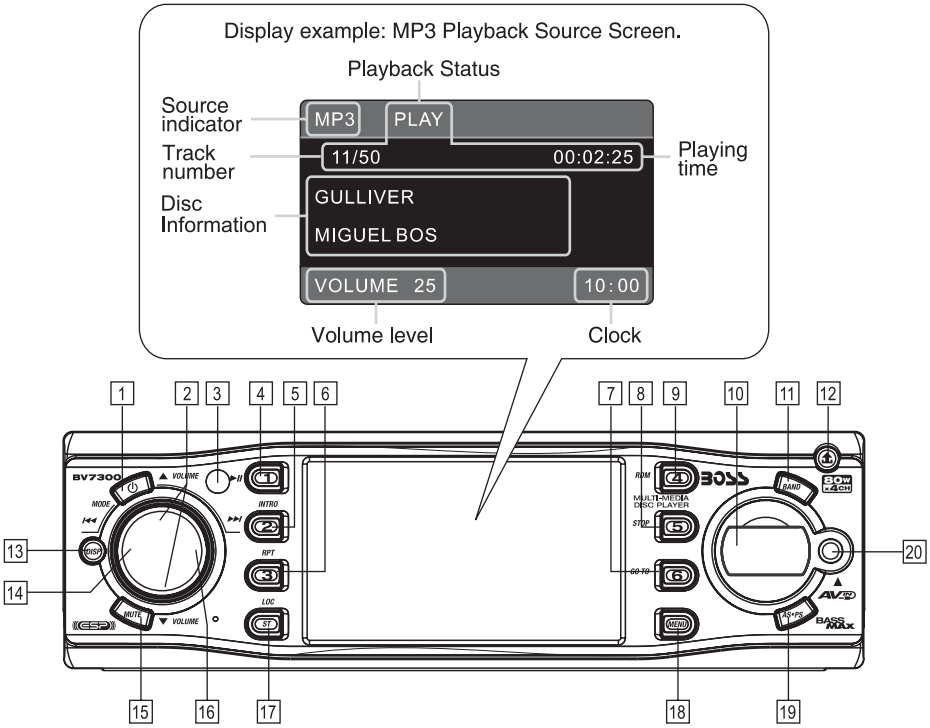
Operation

Features and controls

Front panel



Front panel button legend

1 POWER (⏻), MODE
2 VOL+/-
3 IR Sensor
4 1 ⏯
5 2 INTRO (Intro Scan)
6 3 RPT (Repeat Mode select)
7 6 GO TO
8 5 STOP
9 4 RDM (Random Playback Mode select)
10 USB Port
11 BAND
12 RELEASE (⏏)
13 DISP (Display)
14 ⏮ (Fast Reverse), TUNE/TRACK Down
15 MUTE (turns audio off)
16 ⏭ (Fast Forward), TUNE/TRACK Up
17 ST (Stereo/Mono select), LOC (Local/Distance select)
18 MENU
19 AS•PS (Automatic Search/Program Search)
20 A/V Input Connector

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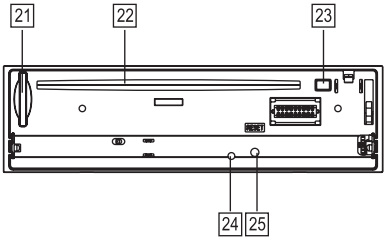
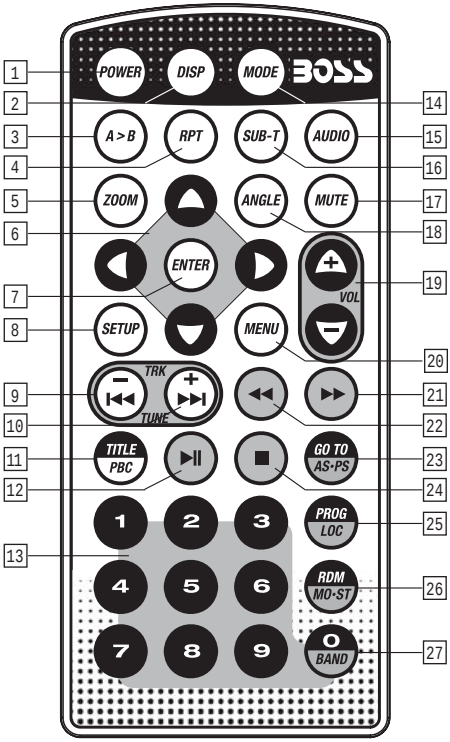
Back of front panel



21 SD/MMC card slot
22 Disc slot
23 EJECT (⏏)
24 LED Warning light
25 RESET button

Remote control



Remote control button legend

1 POWER (⏻)
2 DISP (Display)
3 A > B (repeat section from A to B)
4 RPT (Repeat Mode select)
5 ZOOM
6 Cursor (arrow) keys:
UP/DOWN/RIGHT/LEFT
7 ENTER
8 SETUP
9 ⏮ (TUNE/TRACK Down, Last Track)
10 ⏭ (TUNE/TRACK Up, Next Track)
11 TITLE (DVD Title Menu),
PBC (Playback Control Mode)
12 PLAY/PAUSE (⏯)
13 Numeric buttons 1-9
14 MODE (Input Mode select)
15 AUDIO (Audio Setup select)
16 SUBT (Subtitle language select)
17 MUTE (turns audio off)
18 ANGLE (Camera angle selection for some DVDs)
19 VOL +/-
20 MENU
21 ⏩ (Fast Forward)
22 ⏪ (Fast Reverse)
23 GO TO, AS•PS (Automatic Search / Program Search)
24 STOP (■)
25 PROG (Programmed Play mode)
LOC (Local/Distance select)
26 RDM (Random Playback mode)
MO•ST (Stereo/Mono select)
27 BAND, (Numeric button) 0

Using the remote control

Preparing The Remote Control

* Before using the remote control for the first time, please remove the clear strip from the bottom of the remote control.
* This remote control is designed to be used within 6 feet of the remote sensor on the head unit, and within a range from 30° left to 30° right of the sensor.
* If direct sunlight is falling on the remote sensor, it may interfere with the ability of the remote to communicate with the head unit.
* This remote control is a precision device.

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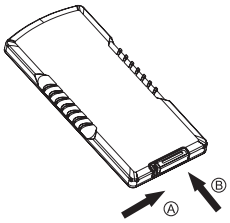
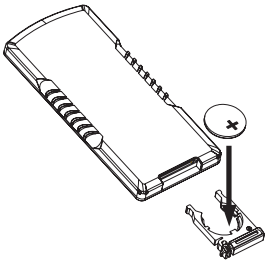
To avoid damage, please follow these precautions:
- Do not subject it to excessive shock.
- Do not carry in a pocket.
- Do not leave in direct sunlight.

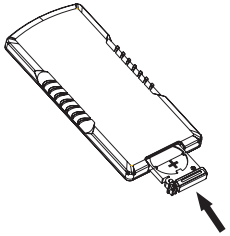
Battery replacement
The remote control uses a lithium button type battery, model CR 2025 3V. Do not use any other kind of battery in the remote. Follow these instructions when installing or replace the battery.
1. Remove the battery holder by pressing the locking tab with your thumb, and slide the battery holder out.



2. Replace the battery with the same type of battery with the (+) side facing up.



3. Gently push in the holder until it is securely locked in place.



General operation

Initial system start-up
Be sure to press the **RESET** button (25) when using the unit for the first time, after all connections are completed correctly.
1. Turn off the unit power.
2. Press the **RESET** button.
* The **RESET** button on the housing must be activated with either a ballpoint pen or similar pointed object. The **RESET** button is to be activated for the following reasons:
- Initial installation of the unit when all wiring is completed.
- Some the function buttons do not operate.
- Error symbol appears on the display.

Turning power on and off
Turn on the unit by pressing ⏻ button or inserting a disc in the **DISC SLOT** (22). When system is on, press and hold the ⏻ to turn off the unit.

Warning LED
The LED (24) will flash if the front cover is not properly inserted into the main unit.

ESP function
The unit features an anti-shock feature, which buffers a certain amount of the recorded program into memory so that if the unit skips due to rough road conditions, the music or video will be uninterrupted. The time of the buffered content varies depending on the disc type:
CD,VCD:18 seconds
MP3:160 seconds
DVD: 6 seconds
MPEG4: 20 seconds

Mute function
To turn off the sound instantly, press the **MUTE** button. To return it to the prior sound level, press **MUTE** again.

Mode function
Press **MODE** repeatedly to switch between DVD, USB,SD/MMC , AV and TUNER modes.

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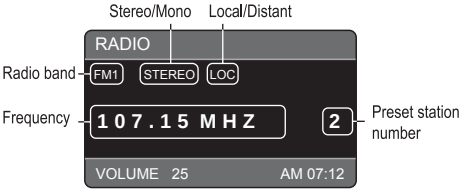
Adjusting the Volume Level
Press **VOL+/-** to adjust the volume level.

Last position memory
- During disc, USB or SD/MMC card playback, press and hold the ⏻ to turn off the unit, when you next turn on the unit, the DVD unit will resume playing from the point that it was interrupted.
- During disc, USB or SD/MMC card playback, if you press **MODE** to switch to a different mode, when you next return to DVD mode, playback will resume from the point at which it was interrupted.

Radio operation



Selecting the frequency band
Press **BAND** button repeatedly to select the desired radio band.

Stereo/Mono
FM listening is generally done in Stereo mode. However, if the signal is weak or reception is not as good as you would like, switching to Mono mode usually improves the overall sound quality. To switch to Mono mode, press **ST** (or **MO•ST** on the remote control). Press it again to return to Stereo mode.

Local/Distant
In urban settings, most stations are strong enough to listening in LOCAL mode. However, if a station seems too distant to be received well, try switching to DISTANT mode by pressing and holding **ST/LOC** (or pressing **LOC** on the remote control). Press it again to return to LOCAL mode.

Selecting Stations
- Press preset station button **1-6** to select a station which has been stored in the memory.
- Press and hold the ⏮ or ⏭ buttons until "MANUAL" appears on the screen, then press ⏮ or ⏭ buttons to select a station. If both buttons have not been pressed for several seconds, the unit will return to automatic seek mode.

Automatic Memory Storage & Program Scanning

- Automatic Memory Storing
This feature is used to automatically set up presets for the radio. Press and hold the AS•PS to start the tuner searching the frequency band and storing the six strongest stations as presets.

- Program Scanning
After the presets have been recorded, when you press this button, the radio will scan the preset buttons in order. It will play a station for a few seconds, and then move to the next. When you hear a station that you wish to listen to, press the **AS•PS** button again to stop the scanning.

Setting up Presets Manually
To set up the presets manually, tune to the desired station using the ⏮ and ⏭ buttons. When you find a station you like, press and hold the desired preset button for a few seconds to store it.

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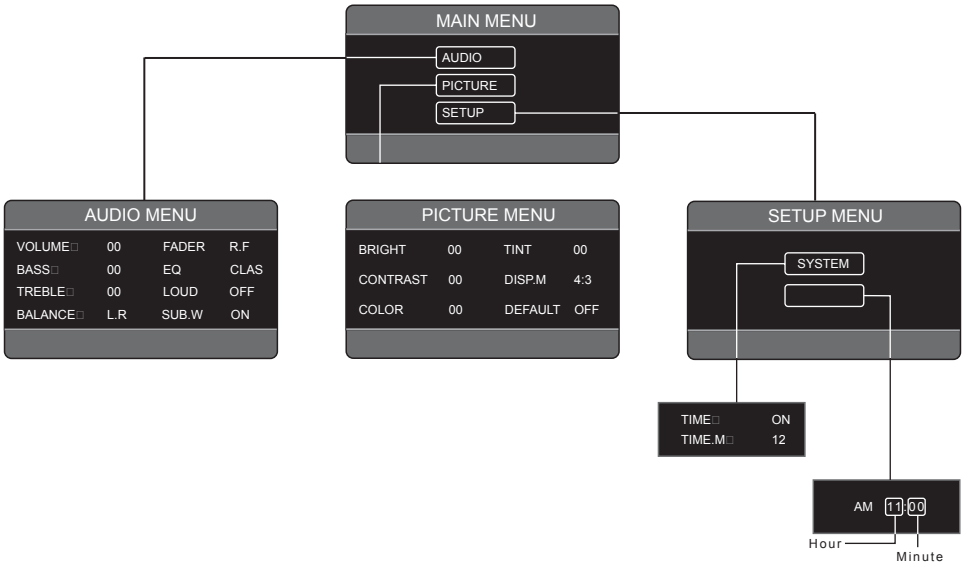
A/V menu settings

You can adjust various settings of the unit from the AV menu.
The AV menu contains the menu items and submenus shown in the figure below:

1. Press **MENU** to activate AV menu.
2. Use the arrow buttons to select a menu item.
3. Press **VOL+/-** button to increase or decrease the parameter you have selected.
4. Repeat steps 2 and 3 to adjust other items if necessary.
5. Press **ZOOM** or **MODE** to return to previous menu.
6. Press **MENU** to finish the procedure.



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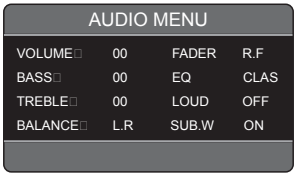
Audio menu



1. Press the arrow buttons to select a menu item you wish to adjust.
2. Press **VOL+/-** button to adjust the item selected.

Volume level: 0 to 63

Bass level: -7 to +7

Treble level: -7 to +7

Balance: 15L to 15R
This setting adjusts the balance between the left and right speakers.

Fader: 15R ~ 15F
This setting adjusts the balance between the front and rear speakers.

Equalization: Flat, Classic, Jazz, Pop

Loudness: ON/OFF
Loudness introduces a special low and high frequency emphasis at low listening levels.

Sub-woofer: ON/OFF
This unit is equipped with a subwoofer output. If you connect this output to a powered suwoofer or amp/subwoofer system, enable the output by selecting ON.

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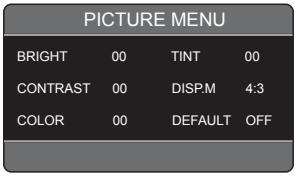
Picture menu



1. Use the arrow buttons to select a menu item you wish to adjust.
2. Press **VOL+/-** button to adjust the item selected.

Brightness: 0 to 63
Adjust this setting if the picture is too bright or too dark.

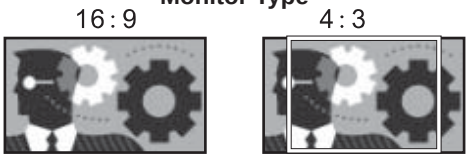
Contrast: 0 to 63
Use this setting to adjust the contrast of the picture.

Color: 0 to 63
Use this setting to adjust the color of the picture.

Tint: 0 to 63
Use this setting to adjust the tint to make colors appear most natural.

Disp.M: (Display monitor type)
Select a setting which is appropriate to the monitor you are using.

Monitor Type



16:9: Select this when the aspect ratio of your monitor is 16:9 (widescreen).

4:3: Select this when the aspect ratio of your monitor is 4:3. If you view a widescreen picture, black bars will appear to fill the left and the right sides of the screen.

Default: ON/OFF;
Select this to restore to factory settings.

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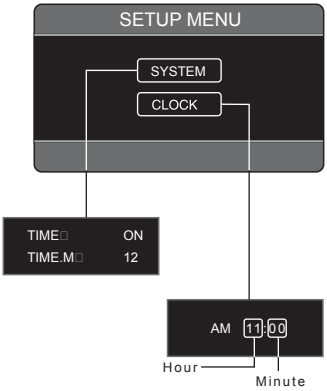
Setup menu



1. Use the arrow buttons to select a menu item you wish to adjust.
2. Press **VOL+/-** button to adjust the item selected.
3. Repeat steps 1 and 2 to adjust other items if necessary.
4. Press **ZOOM** or **MODE** to return to previous menu.

Time: ON/OFF
Turns the clock display on/off.

Time.M: 12 / 24
Use this setting to select 12 hour clock mode or 24 hour clock mode.

Clock setting:
Use this menu item to set or make changes to the time displayed on the clock.
1). Press the ◄/► (on the remote control) button to move to the Hour item or Minute item.
2). Press the **VOL+/-** (on the panel) or ▲/▼ (on the remote control) to set clock.

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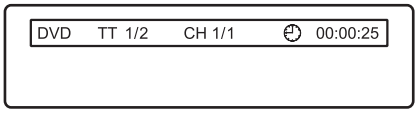
Disc operation

Loading/Removing a disc

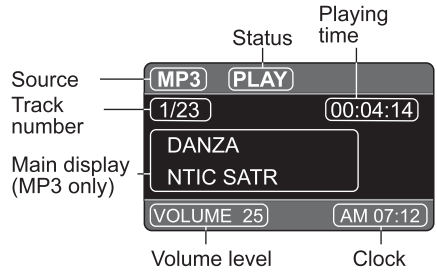
1. Press the ⏏ button (7) to flip down the front panel.
2. Insert a disc with the label side facing up. The disc will be drawn into the player automatically. The information for the current disc will be shown on the screen.

* To eject the disc, press the ⏏ button.

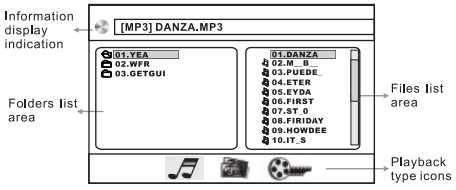
When you insert a DVD disc, a screen similar to the one below will appear when you press the **SUB-T** button:



When you insert a CD, MP3, JPEG or MPEG4 disc, the following screen appears:

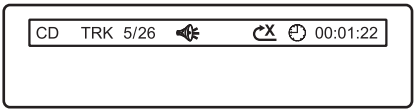


Press the **DISP** to switch to the following interface:
For MP3/JPEG/MPEG4:



Use cursor buttons (▲/▼/◀/▶) and the **ENTER** button to select item.

For CD:



Selecting tracks in single steps

-Press ⏮ button or ⏭ button to skip to the previous or next track.
-Press and hold ⏮ button or ⏭ button to fast reverse or fast forward. Return to normal mode by releasing this button.

Pause playback

Press ⏯ button to pause disc playback. Press it again to resume playback.

Stopping playback

- Press the ■ (stop) briefly to stop playback. Press ⏯ button to resume playback.
- Press ■ button twice and then press ⏯ button to stop playback and return to the first track on the disc.

Fast Forward/Fast Reverse

1. Fast Forward

Press ⏩ button repeatedly to increase the speed of fast forward as follows:

FORWARD 2X ➡ 4X ➡ 8X ➡ 20X

In fast forward mode, press ⏯ button to return to normal playback.

2. Fast Reverse

Press ⏪ button repeatedly to increase the speed of fast reverse as follows:

BACKWARD 2X ➡ 4X ➡ 8X ➡ 20X

In fast reverse mode, press ⏯ button to return to normal playback.

Repeat play/Paragraph repeat play

- Repeat play:

Use this function when you wish to repeat a whole disc, a track or a directory on the disc.

1) Press **RPT** button repeatedly to select different repeat modes.
2) For different kinds of discs, pressing **RPT** button has different effects.

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For CD/VCD/SVCD:

REP 1 ➡ REP ALL ➡ REP OFF

For MP3:

REP 1 ➡ REP DIR ➡ REP ALL ➡ REP OFF

For DVD:

REP CHAPTER ➡ REP TITLE ➡ REP OFF

NOTES:

REP 1: Only one track (file) is played repeatedly.

REP DIR: A single folder of tracks is played repeatedly.

REP CHAPTER: A chapter is played repeatedly.

REP TITLE: A title is played repeatedly.

REP ALL: An entire disc is played repeatedly.

REP OFF: Normal playback mode.

Note: The Repeat feature is not supported for VCD 2.0 discs when PBC (Playback Control) is on.

- Paragraph repeat play:

Use this function when you wish to repeat play a desired paragraph. A-B repeat allows a selected passage to be playbed.

Press **A-B** button at the start of the desired passage.

REPEAT A-

Press **A-B** button at the end of the passage.

REPEAT A-B

The unit will repeat playing the passage you just set from A to B. To return to normal playback, press **A-B** button again.

REPEAT CANCEL

Playing in random order

Press the **RDM** button to switch the random mode on/off. In random mode, tracks (files) on the disc will be played in random order.

Previewing all tracks (Intro scan)

Press the **INTRO** button to play the first several seconds of each track on the current disc. Press the button again to stop intro scan and return to normal mode.

Special disc operation

Disc menu operations

Menu-driven playback is possible while playing a disc with menu-driven features or when playing a VCD with PBC (Playback Control).

1.Press the **TITLE/PBC** and a title list or disc menu will appear on the monitor.

2.Use cursor buttons (▲/▼/◀/▶) and the **ENTER** button to select the items you want on the menu.

* On some discs, you can select the items with the numeric key.

Multi-subtitle language function

Some DVD discs have multiple subtitle languages, allowing you to select the subtitle language recorded on disc.

Press the **SUB-T** button to switch between the different languages recorded on the disc.

Notes:

- Not all discs will allow changing the subtitle during playback. In these cases, select the desired subtitle language from the DVD menu.
- There may be a delay before the selected subtitle language appears.
- For some discs, the subtitles will be displayed even when this is set to off.
- The number of available languages varies from disc to disc.

Multi-audio language function

For DVD:

For DVD discs which have multiple language soundtracks, you can press the

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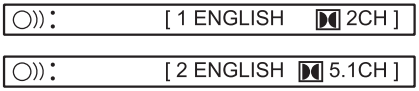
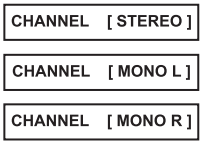
AUDIO button to switch between the audio languages recorded on the disc.



Notes:
- The number of available languages varies from disc to disc.
- Some discs only contain one soundtrack language.
- Not all discs will allow changing the subtitle during playback. In these cases, select subtitle select mode from the DVD's menu.

For VCD/SVCD:
Some VCD/SVCD discs have multiple audio channels, You can press **AUDIO** to select the desired audio channel(s) to play.

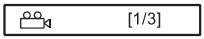


STEREO: Normal stereo (left/ right) playback.
MONO L: Left audio channel only.
MONO R: Right audio channel only.

Notes:
- Some discs only contain one audio channel.

Multi-angle function
You can view the same scene at different angles if the disc has been recorded with multiple viewing angles .

Press **ANGLE** during playback. The following information will be shown:



This example indicates that you are currently viewing the first of three available camera angles. Press the **ANGLE** button to select a different angle.

Notes:
- Some time may be required for the angle to change.
- Depending on the disc, the viewing angle may switch in one of two ways.
  1. Seamless: The angle switches smoothly.
  2. Non-seamless: When the angle is switched, a still picture is displayed first, after which the angle switches.
- The number of available viewing angles varies from disc to disc.
- The function only works for discs having scenes recorded at different angles.

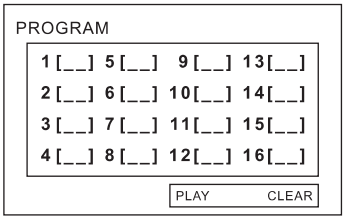
ZOOM function
Press **ZOOM** button repeatedly to enlarge or reduce the size of image according to the disc as follows:

ZOOM 2 ➡ ZOOM 3 ➡ ZOOM 4 ➡ ZOOM 1/2 ➡ ZOOM 1/3 ➡ ZOOM 1/4 ➡ ZOOM OFF

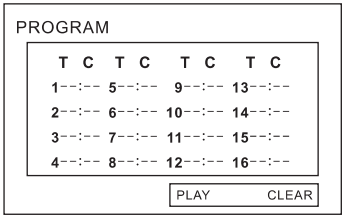
In zoom in mode, press the ▲/▼/◀/▶ buttons to move the zoomed-in area.

Program play function
Press **PROG** during playback to activate the programing editing interface as follows:

For VCD/SVCD/CD:



For DVD/MP3/MPEG4:



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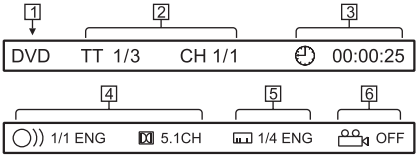
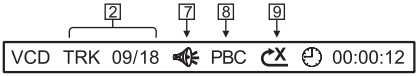
1) Use the ▲/▼/◀/▶ cursor buttons to select the item that you want to program. The item you selected will be highlighted.
2) Input the track number that you want to program using the numeric buttons (0-9) on the remote control.
3) Press the ▲/▼/◀/▶ cursor buttons to move to “PLAY” operation button and then press the **ENTER** button to program the playback sequence.

On Screen Display function
Press and hold the **SUB-T** button during playback to display information of the current disc on the screen:

For DVD:

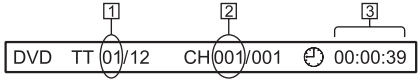


For VCD/CD/MP3/JPEG:



1 Disc type
2 Playback information
TT 1/3: Current title/Total title
CH 1/1: Current Chapter/Total Chapter
TRK 9/18: Current Track/Total Track
3 Time indication
: Elapsed playing time of the disc
-: Remaining time of the disc
T : Elapsed playing time of the current title
T-: Remaining time of the current title
C: Elapsed playing time of the current chapter
C-: Remaining time of the current chapter
4 Audio language or audio channel indication
5 Subtitle language indication
6 View angle indication
7 Mute indication
8 PBC indication (only for VCD with PBC)
9 Repeat playback indication
1: One track repeat playback
: One directory repeat playback
A: The whole disc repeat playback
X: Exit repeat playback mode

GOTO function
Press **GOTO** button, the screen will display the following message.
FOR DVD:



FOR VCD/CD/MP3:

- To search for a particular title/chapter/track
1. Use the ▲/▼/◀/▶ cursor buttons to move to 1/2/3.
2. Use the numeric keys to input the desired Title/ChapterTrack, and then press the **ENTER** button to confirm.

- To search for a particular point by playing time
1. Use the ▲/▼/◀/▶ cursor buttons to move to 3.
2. Use the numeric keys to input the elapsed playing time of the current title or of the disc, and then press the **ENTER** button to confirm.

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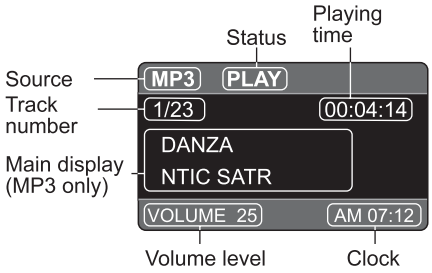
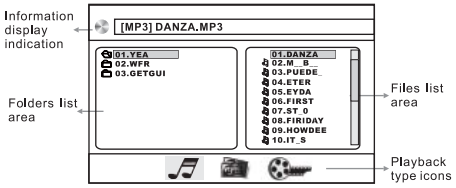
Data disc playback

When you insert a data disc including audio (MP3), movie (MPEG4) or picture (JPEG) files into the disc slot, the following main menu will appear:



Press the **DISP** to switch to the following interface.



Use the cursor buttons (▲/▼/◄/►) to select the required file type (Music , Picture or Movie) or a folder / file on the screen you wish to play, then press the **ENTER** button to confirm your selection.

Playback type icons:
- AUDIO Playback mode (default)
- JPG Playback mode
- MOVIE Playback mode

In JPEG playback mode or MOVIE playback mode, press the ■ (**STOP**) to return to the main menu.

USB playback

This disc player features a front panel USB interface (10). A USB device can be connected to this port.

When you insert a USB device into the USB connector, the DVD player will read the USB automatically.

The unit gives priority to a disc or SD/MMC card. If you insert a disc into the disc slot or insert a SD/MMC card into the SD/MMC interface while playing from the USB device, the unit will play the disc or the SD/MMC. Press the **MODE** button to switch to the USB playback mode.

Note:
When reading the USB device, please don't unplug it. If the player is unable to read the device, check if the device is in good condition. You may also try removing the device fully from the port, and reinserting it again.

- The main unit can only support the standard USB-memory format approved by Microsoft.

- USB MP3 player is not a "standard," which means different brands or models have their own standards. Therefore, this unit may not support every MP3 player.

- When connecting an MP3 player which has a normal non-rechargeable battery in the player, you should remove the battery from the MP3 player before you connect it to the USB port. Otherwise, the battery may explode.

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Memory card playback

This disc player features a SD/MMC memory card slot.

When you insert a SD/MMC card into the memory card slot, the DVD player will read the SD/MMC card automatically.

The unit gives first playback priority to the card in the slot. If you insert a disc into the disc slot while reading the SD/MMC card, the unit will play the disc. Press the **MODE** button to switch back to the card reading mode.

Note:
When reading the memory card, please don't touch or remove the card.
If the player is unable to read the card, please check if the card is in good condition. You may also wish to try removing the card fully from the reader, and reinserting it again.

A/V IN operation

This disc player offers you the option of using the front panel auxiliary A/V input connector to connect a video game, digital camera/camcorder or other units you wish to use in your mobile audio/video system. To connect a video device to the auxiliary A/V input, first connect it with the cable provided. Then press the **MODE** button to turn AV IN mode ON or OFF.

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Setup

In DVD mode, when the disc is playing or in stop mode, press **SETUP** button to enter the Setup menu.

1. When the cursor is in the upper part of the menu, use ◄/► buttons to move between the different pages.
2. Press ▼ button to move the cursor to the setup page below. Then you can use the ▲/▼ buttons to move between the different setup options.
3. Press ► or the **ENTER** button to move to the choice list of each setup option, and then use ▲/▼ buttons and **ENTER** button to adjust your selection.
4. When the setting is complete, press **SETUP** button to return to normal mode.

** When settings are changed, old settings are overwritten. Make note of the current settings before making changes. If the vehicle's battery is disconnected, the settings will be cleared and will return to the factory settings when power is next applied.*

System setup

When you first open the setup menu, you will see the System Setup page:

SYSTEM SETUP
TV SYSTEM
SCREEN SAVER
TV TYPE
PASSWORD
RATING
DEFAULT
EXIT SETUP

TV SYSTEM

TV SYSTEM is used to select the TV output mode. This player can play discs recorded in either PAL or NTSC formats.

- Select NTSC format when the unit is connected to an NTSC TV.
- Select PAL format when the unit is connected to a PAL TV.
- You can also choose AUTO SELECT, which will sense the type of monitor attached to the output and select NTSC or PAL as needed. If you know the type of monitor, you should choose the type in this menu rather than letting AUTO SELECT do it for you. This is because there may be an undesirable small delay and some flickering of the screen during the AUTO-SELECT process.

SCREEN SAVER

Like a computer monitor, video screens can "burn in" if a still image is displayed too long on the screen. This unit features a "screen saver" which produces a moving image to avoid burn-in, if SCREEN SAVER is enabled in the Setup menu.

SETTING the TV TYPE

TV types can vary based on their aspect ratio. The common monitors fall into one of three categories: 4:3 (PS/Pan and Scan), 4:3 (LB /Letterbox) or 16:9 (Widescreen). Playing a video recorded in one aspect ratio on a monitor with a different ratio can result in some mismatches and undesirable display distortion or cutoffs. Read the following to assist you in setting up the TV type:

4:3 PS (PAN SCAN)

Select this when connected to a conventional 4:3 size monitor. The picture will fill the entire TV screen. However, due to the mismatch in aspect ratio, parts of the movie at the extreme left and right sides will not be visible when playing a 16:9 format movie.

4:3 (Pan and Scan) format is the factory default setting for this player.

4:3 (LETTER BOX)

When you are playing a widescreen format video on a normal (4:3) monitor, the best

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way to view this is in (4:3) letterbox format. You can see the full picture, but there will be a black band at the top and bottom of the screen.

16:9 (WIDESCREEN)
Select this format when connected to a widescreen TV.

PASSWORD
The Password system is used in conjunction with the Parental Controls settings to prevent a young person from changing the settings without permission. The factory default password is 0000. If you wish to change this, enter 0000 and when prompted, enter a different 4-digit number.

PARENTAL CONTROL LEVEL
Use this function to restrict the viewing of movies to children of appropriate age levels.

1) Press the ▲/▼ button to select “PASSWORD” then press the **ENTER** button.

2) The password input mode is now activated. Use the numeric keypad to input the 4-digit password, then press the **ENTER** button. (The factory default password is “0000”)

3) Press the ▲/▼ button to select “RATING” then press the **ENTER** button. The restriction level (parental level) input display appears.

4) Press the ▲/▼ button to select the restriction level (1 to 8) and then press the **ENTER** button.

5) When the setting is complete, press the **SETUP** button to return to normal mode.

DEFAULT
Select DEFAULT and confirm it to restore all the System Settings to those programmed at the factory, except the Parental Controls and Password.

Language setup

When you open the language setup menu, you will see the following screen:

LANGUAGE SETUP
OSD LANGUAGE
AUDIO LANG
SUBTITLE LANG
MENU LANG
EXIT SETUP

This menu provides many choices for the menu, DVD and subtitle languages. The languages for the DVD player in its various menus are set in different menus than those choices you might make for the playback of a particular disc. Please note that language options vary from disc to disc, and some settings may be unavailable on some discs.

OSD LANGUAGE:
ENGLISH/GERMAN/SPANISH/FRENCH/
PORTUGUESE/ITALIAN/RUSSIAN/POLISH

AUDIO LANG:
ENGLISH/GERMAN/SPANISH/FRENCH/
PORTUGUESE/ITALIAN/RUSSIAN/POLISH

SUBTITLE LANG:
ENGLISH/GERMAN/SPANISH/FRENCH/
PORTUGUESE/ITALIAN/RUSSIAN/POLISH

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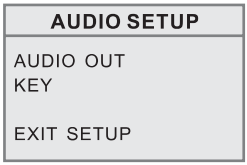
MENU LANG:
ENGLISH/GERMAN/SPANISH/FRENCH/
PORTUGUESE/ITALIAN/RUSSIAN/POLISH

Audio setup

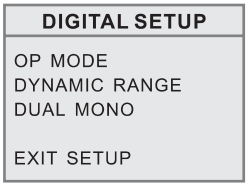
When you open the AUDIO menu, you will see the following screen:



1) AUDIO OUT: Change among SPDIF/OFF, SPDIF/RAW and SPDIF/PCM.
2) KEY: Change among b, -4, -2, 0, +2, +4, #.

Digital setup

When you open the DIGITAL SETUP menu, you will see the DIGITAL SETUP screen:



1) OP MODE: Change among LINE OUT/ RF REMOD.
- LINE OUT: LINE OUT mode, with digital dialog normalization.
- RF REMOD: RF REMODULATION mode, with heavy compression and digital dialog normalization.

2). DYNAMIC RANGE: Change among FULL, 6/8, 4/8, 2/8, OFF.
3). DUAL MONO: Change among STEREO, MONO L, MONO R, MIX MONO.

More about this player

About parental controls

Commercially-recorded DVD discs have parental level assignments. The range of parental controls is from 1 to 8. In general, this range corresponds to established movie rating systems. Movie rating systems may vary depending on the country in which you live. At the bottom of this page is a chart showing the rating system and corresponding Parental Control ratings for the USA.

The player can be set in a similar way. If the player's parental level is set to 8 it will play all discs. If the player's parental level is set below 8, only discs with a lower or equal parental level will play.

For example, if the player is set to 5, only discs with parental control ratings of 1-5 will play. To play a disc with a higher number rating, you must change the player's rating to a higher number.

Consider a disc that is suitable for most audiences, and is rated as level 2 for the most part. However in the middle there are also scenes rated at 5 and 7 (not suitable for children). Alternative scenes with lower rating are included. The player plays the highest rated scene that the parental setting allows.

A section of the disc can have several different sequences that vary in parental control level. In the above example of a disc with parental control, the player will show a different section depending on the parental control level set in the player's menu.

In this way parents can control the content of films and there is no indication that any censorship has occurred.

	Unlock		Unlock
1	KID SAFE	5	PG-R
2	G	6	R
3	PG	7	NC-17
4	PG 13	8	ADULT

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Playing MP3 discs

What is MP3?
MP3 (MPEG-1 Audio Layer 3) is a compression standard prescribed by the ISO, the International Standardization Organization and MPEG, which is a joint activity institution of the IEC.

MP3 files contain compressed audio data. MP3 encoding is capable of compressing audio data at extremely high ratios, reducing the size of music files to as much as one-tenth their original size. This is achieved while still maintaining near-CD quality. The MP3 format realizes such high compression ratios by eliminating the sounds that are either inaudible to the human ear or masked by other sounds.

Corresponding file systems
This device supports discs formatted with ISO9660 level 1 or level 2. Under the ISO9660 standard, there are some restrictions to remember.
The maximum nested folder depth is 8 (including the root directory). The number of characters for a folder/file names are letters A-Z (all caps), numbers 0-9, and '_' (underscore).
This device also can play back discs in Joliet, Romeo, etc., and other standards that conform to ISO9660. However, sometimes the file names, folder names, etc., are not displayed correctly.

Playing a JPEG disc

When preparing a disc of jpeg images to be shown using the DVD player, please note that following guidelines:

• The recommended image size is 640 x 480 pixels. If a file is recorded at a higher resolution, the player must resample it, which will cause delays in displaying the image.

• Only "baseline" type JPEG images can be displayed on this player. Ths is the typical format used in digital cameras and web cameras.

"Progressive" (typically used for website display) or "lossless" (an older format which is rarely used today) JPEG files cannot be played. So be sure you are saving the files in the proper format. If you play a progressive or lossless JPEG image, a black screen will appear. When you next select a baseline image, you may experience some delays.

Playing MPEG discs

- This unit can play back MPEG 1 or 2 files with the extension code <.mpg>.
- Audio stream should conform to MPEG1 Audio Layer 2.

Frequently asked questions

- I inserted a DVD disc, but it cannot be played. The message "REGION ERROR" is displayed.

DVD players and discs all have "REGION CODES." If the region code number on the DVD disc does not correspond to the region number of this DVD player, the unit cannot play the disc.

- When I insert a DVD disc, there is a window shown on the screen for me to enter a 4 character password. Why?

The current disc has a "Parental Control" level, and the player's parental level is set below the level of the disc. To view this disc, you should enter the correct password to play the disc normally.

NOTE:
To set the "Parental Control" level, please refer to "Parental Control Level" on page 22.

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Specifications

■ **[GENERAL]**

Power Supply Requirements:

DC 12 Volts, Negative Ground

Chassis Dimensions:

7”W X 6.3”D X 2”H

Tone Controls:

- Bass (at 100 Hz) ±10 dB
- Treble(at 10 kHz) ±10 dB

Maximum Output Power: 80W X 4CH

Current Consumption: 15 Ampere (max.)

■ **[DVD PLAYER]**

Signal to Noise Ratio: > 50 dB

Channel Separation: > 40 dB

Frequency Response: 20Hz - 20 KHz

■ **[MONITOR SCREEN]**

Screen: 3.2 inch TFT LCD

Number of pixels: 16,777,216 pixels

Resolution: 959 X 240 pixels

■ **[RADIO]**

FM TUNER

Frequency range: 87.5 -107.9 MHz

IF: 10.7 MHz

Stereo Separation: >25dB

AM TUNER

Frequency range: 530 - 1710 KHz

IF: 450 KHz

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Troubleshooting

If it appears that your DVD unit is faulty, please first consult this checklist. It may be that something simple has been overlooked.

Under no circumstances should you try to repair the player yourself, as this will void the warranty. Only qualified service personnel may remove the cover or service this player.

No Power
♦ If the power supply is connected to the car accessory circuits, but the engine is not turned on, switch the ignition key to “ACC.”
♦ Check if the fuse is blown. Replace with a new fuse if necessary.
♦ Check if the POWER button on the front of the player is set to ON.

No Picture
♦ Check if the monitor or TV is switched ON.
♦ Check if select proper mode has been selected (such as Disc Play mode or AV mode).
♦ Check the video connections.

Distorted Picture
♦ Check the disc for fingerprints and clean it with soft cloth, wiping from center to the edge.
♦ Sometimes a small amount of picture distortion may be present. This is not a malfunction.

Completely Distorted Picture
♦ The disc format is not the same as the TV-set used (PAL/NTSC). Select the proper setting in the TV SYSTEM menu (see page 21).

No Color in Picture
♦ The disc format is not the same as the TV-set used (PAL/NTSC). Select the proper setting in the TV SYSTEM menu (see page 21).

Disc Does Not Play
♦ Be sure that the disc label faces up.
♦ Clean the disc.
♦ Check if the disc is defective by trying another disc.

No Sound
♦ Check the audio connections.

The Player Does Not Respond to the Remote Control
♦ Aim the remote control directly at the sensor on the front of the player.
♦ Remove any obstacles which may interfere with the signal path.
♦ Inspect or replace the remote control battery.

Picture is distorted or Only Black and White
♦ The disc format is not according to the TV-set used (PAL/NTSC). Select the proper setting in the TV SYSTEM menu (see page 21).

No Audio at Digital Output
♦ Check the digital connections.
♦ Check the Digital Audio menu to make sure that the digital output is correctly set.
♦ Check if the audio format of the selected audio language matches your receiver’s capabilities.

Buttons Do Not Work
♦ Press Reset button on the front panel of the DVD unit.

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BV7300

In-Dash AM/FM DVD/MP3/CD Receiver with 3.2-inch TFT Monitor with USB and SD Memory Card Ports and Front Panel A/V AUX Input

03.2009

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